



# PDT - PIPE/TUBE CUT OFF SYSTEM

TURNKEY PRODUCTION SOLUTIONS

The Kentucky Gauge PDT feed system is designed to vastly improve efficiency in rotary cutting operations and eliminate needless errors with a completely hands-free operation. Available as a new turnkey solution or as a retrofit package for existing rotary cutting machines.



## Key Features

- Programmable position controller with free-standing control stand
- Non-contact linear encoder for direct and precise measuring
- Precision rack and pinion drive with maintenance-free stainless steel roller bearings
- Photo-eye for automatic initial trim cut
- Available in any length - *No limitations*
- Heavy-duty, air-operated down-feed with hydraulic feed control
- Adjustable stroke for maximum efficiency
- Customized to fit application requirements

## Specifications

Resolution	0.001", 0.01mm, 1/64"
Repeat-accuracy	± 0.001" / 0.01 mm
Pipe/tube capacity	1/4" - 12.750" OD up to 5/8" wall thickness
Travel speed	up to 20" / sec
Program memory	3000 address lines
Estimated blade life	1,500 - 2,000 cuts
Power supply	110 VAC, 15 amp (gauge) 230/460 VAC, 3ph (cutter) 80-120 psi air supply
Measuring range	Unlimited

Specifications subject to change

INDUSTRY-BEST 2-YEAR WARRANTY

MADE IN THE USA



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## Automatic, Chipless, Minimal Burrs

### Benefits of a turnkey rotary cutting system:

- Faster than sawing due to only needing to penetrate the wall thickness
- No messy chips are created.
- Blade life is typically thousands of cuts before needing to be resharpened, resulting in an extremely low cost per cut. Additionally, a blade can be resharpened up to 30 times!
- Coolant is rarely needed, which keeps the work area and parts clean.
- Minimal burrs on the ID and OD of the pipe/tube.
- No blade kerf is needed, therefore, no material is lost during the cut.

### Options

- Bar code scanner
- Machine guarding
- Automatic magazine loaders
- Onsite installation and training
- Pipe/tube hold downs to combat bent/bowed material
- Customized to fit application requirements



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## STANDARD FEATURES

- Heavy duty rack and pinion drive
- Carriage with hardened double ball bearings
- Magnetic linear encoder for direct measuring
- Motor brake for secure positioning
- LED controller, displays in 0.001in (LCD available for fractional)
- 3,000 line program memory (hole-list)
- RS232 interface with PC
- Linear error compensation, 100 points
- Pneumatic material clamps
- Two speed stroke control with variable drill feed
- Proximity sensors for end of stroke
- Clean hole breakthrough
- Adjustments for varying material widths & center line changes

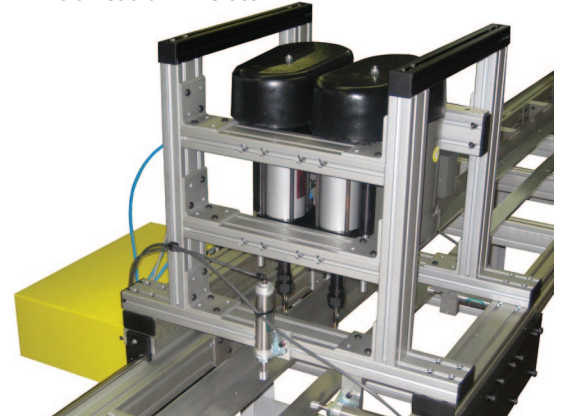
## SPECIFICATIONS

- Carriage travel speed: 15in/sec, others available upon request
- Repeatability: +/- 0.001in (+/- 0.03mm)
- Encoder accuracy: +/- 0.001in/ft (+/- 0.1mm/m)
- Total length: measuring length + 36in
- Drill thrust force: up to 1,000lbs (model dependent)
- Spindle speeds: up to 8000 RPM (model dependent)
- Requirements: 110VAC & 230/460VAC 3-phase & shop air

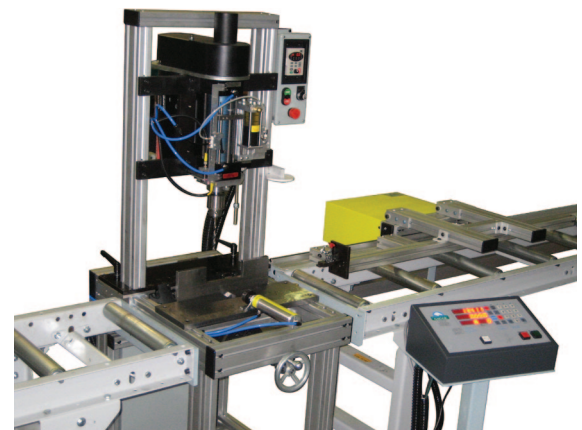
## OPTIONS

- Adjustable skip speed / rapid advance through material voids (tubing)
- Multiple spindle heads
- Multiple axis drilling
- Onsite installation and training by factory technician

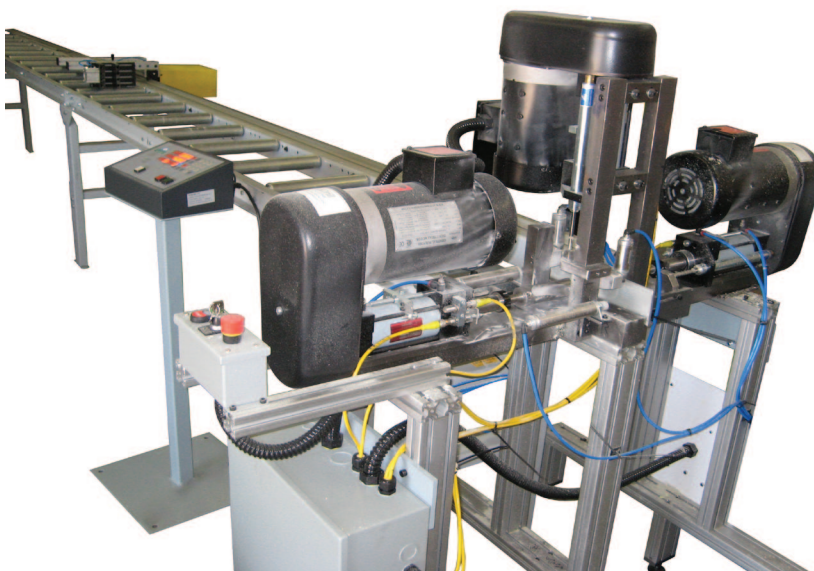
KDP multi-head drill - vertical



Custom KDP Drill Station with Automatic Pusher System



KDP multi-side drilling machine



KDP multi-axis and multi-spindle drilling

